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Technology Center 2600

In the Claims

1. (Amended) Stereoscopic device comprising:
a sensor assembly having an optical axis, for detecting a sequence of stereoscopic images of an object;
a movement detector, detecting [the] movements of said sensor assembly perpendicular to the optical axis, relative to said object; and
a processing unit connected to said sensor assembly and to said movement detector, wherein said processing unit selects portions of said stereoscopic images, according to a signal received from said movement detector, thereby producing a visually stable sequence of display images.
4. (Amended) The stereoscopic device according to claim 2, wherein said visually stable sequence of display images comprises a plurality of sub-matrices, wherein each one of said sub-matrices is selected from a respective one of said stereoscopic images.
16. (Amended) The stereoscopic device according to claim 15, further comprising a controllable multi wavelength illumination unit, connected to said [controller] processing unit, said controllable multi wavelength illumination unit producing at least two alternating beams of light, each said beams of light characterized as being in a different range of wavelengths.
27. (Amended) The stereoscopic device according to claim [15] 26, wherein each of said sub-matrices is located at a distance equal to a respective one of said movements from an origin, in a direction opposite to said respective movement, relative to said origin.
30. (Amended) Method for producing a stable sequence of stereoscopic images of an object, the method comprising the steps of:
detecting a plurality of stereoscopic images, using a stereoscopic sensor assembly having an optical axis;
for each said stereoscopic images, detecting movements of said stereoscopic sensor assembly perpendicular to said optical axis relative to said object; and
for each said stereoscopic images, selecting a portion of each of said stereoscopic images, according to said respective movement.